

"Cyclone" High Speed Chain Hoist

With Self-Lubricating Bearings

The following are the strong points: Speed; Absence of Vibration; Accurately Cut and Strong Gears; Durability; Safety.

SPEED

The peculiar gyrating movement of the hoist and the perfect balance of all its parts, make possible a very high speed with practically

No Vibration

NO VIBRATION

The fact that these hoists run so smoothly and are without vibration renders them eminently well fitted for handling molds in a foundry. Vibration is fatal to a hoist for foundry use.

GEARS

All the gears are accurately cut. No cast gears are used in these hoists. It is due to this as well as to its gyrating movement that the hoists run so smoothly.

DURABILITY

The parts are all heavy and strong, giving the hoist a long life. There is no delicate mechanism nor small gears to wear out rapidly.

SAFETY

In the cut Fig. 300B, page 836, is shown the teeth of the lift wheel surrounded by two yokes. This is the lifting mechanism of the hoist. Notice how many teeth are in contact. This relation between the teeth of the lift wheel and the yoke never varies, there are always the same number in contact.

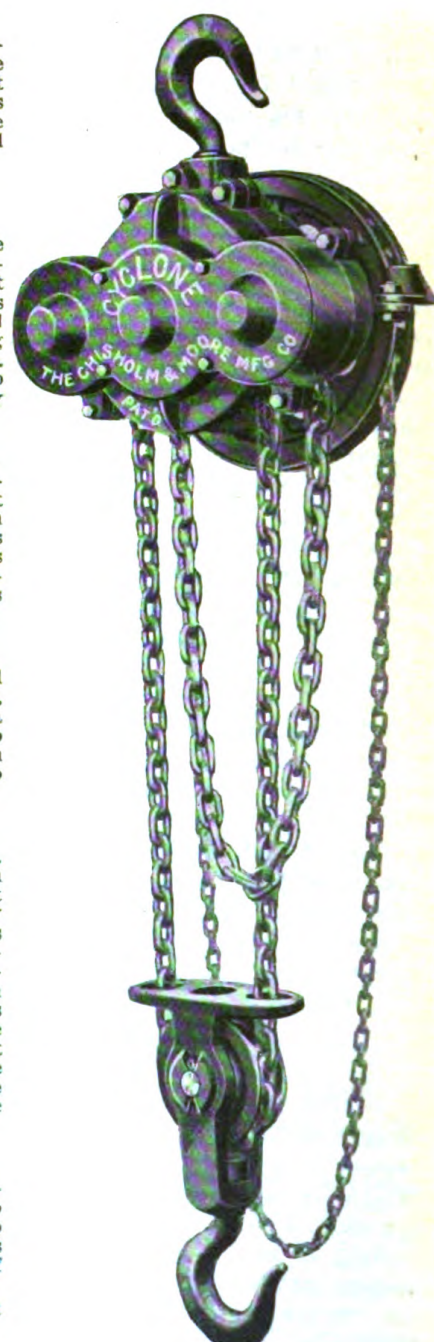
CHAIN

The chains are accurately made to gauge and tested to one and a half times the rated capacity of the hoist.

See page 836 for list prices.



Front View
Figure No. 300



Back View
Figure No. 300

"Cyclone" High Speed Chain Hoist

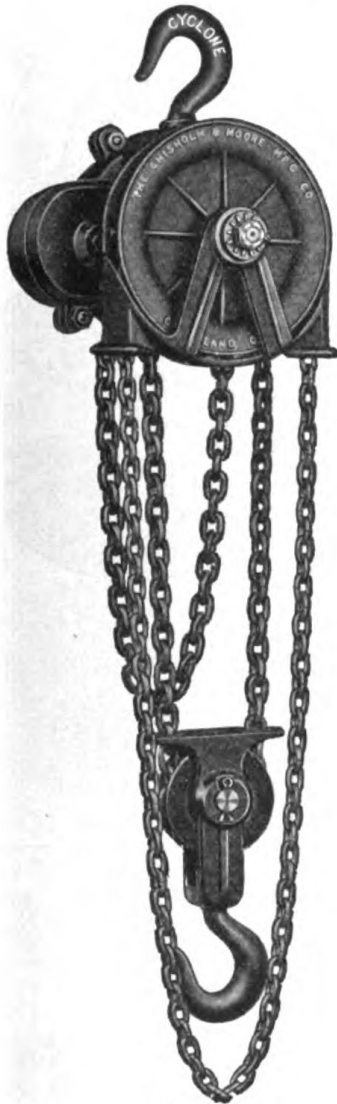


Fig. 300-G

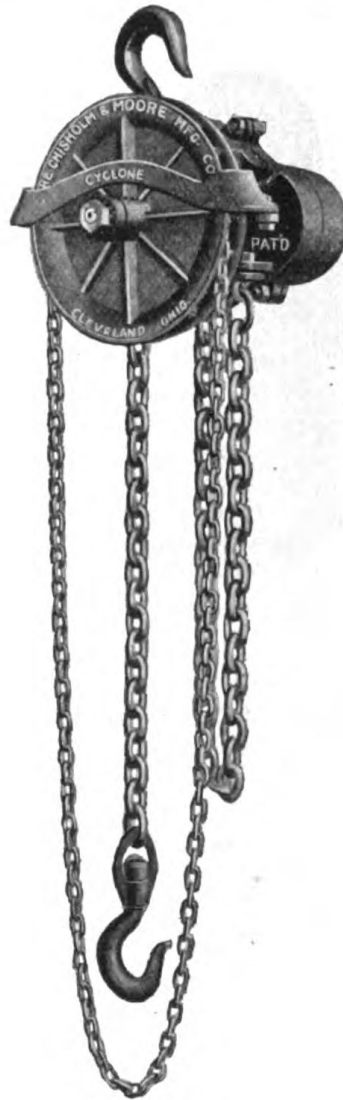


Fig. 300-H

Fig. 300-G. The swinging bell mouth chain guide as shown in the cut allows the hand chain to be handled at an angle from the hoist. This special form of guide can be furnished with any size of hoist.

Fig. 300-H. The 1,000, 2,000, 3,000, 4,000 and 6,000-pound sizes are made with single load chains, as shown above (Fig. 300-H), all other sizes (except 16, 20, 30 and 40 tons) are made with double load chains as shown by Fig. 300, page 834.

The 1,000, 2,000, 3,000, 4,000 and 6,000-pound sizes, however, can be furnished with double load chains if desired.

See page 836 for list.

"Cyclone" High Speed Chain Hoist

With Self-Lubricating Bearings

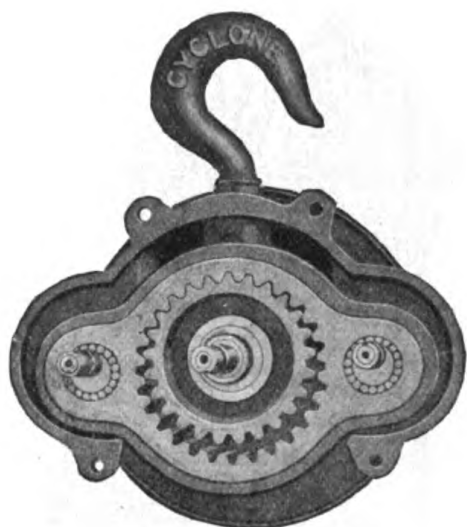


Fig. 300-B

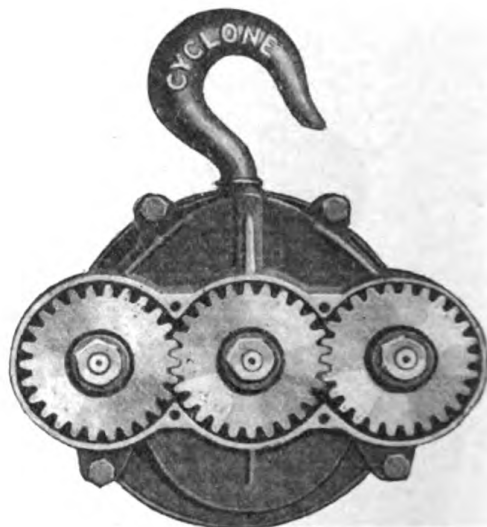


Fig. 300-C

PRICE LIST OF COMPLETE HOIST

Capacity Ton	Price Complete	Height of Lift† Feet	Ex. Chain per Foot of Lift	Weight Complete with Chains Pounds	Chain Pull to Lift Full Load Pounds	Length of Chain Handled to Lift Load One Foot Feet	Short. Dist. Bet'n Hooks Inches
½	\$35.00	8	\$0.90	71	56	20	15
1	45.00	8	.95	99	79	33	17
1½	60.00	8	1.00	118	102	39	19
2	70.00	9	1.05	161	109	47	21
3	90.00	10	1.30	226	115	70	22
4	110.00	10	1.60	260	120	91	34
5	140.00	12	2.10	376	104	123	38
6	165.00	12	2.10	410	109	140	41
8	200.00	12	2.70	484	135	159	43
10	240.00	12	3.25	652	144	191	47
12	300.00	12	3.30	695	160	195	50
16	360.00	12	3.80	872	149	285	44
20	425.00	12	6.50	1600	*90	336	50
30	525.00	12	9.00	1860	*90	504	63
40	650.00	12	11.50	2120	*90	670	82

*90 pounds on each hand wheel.

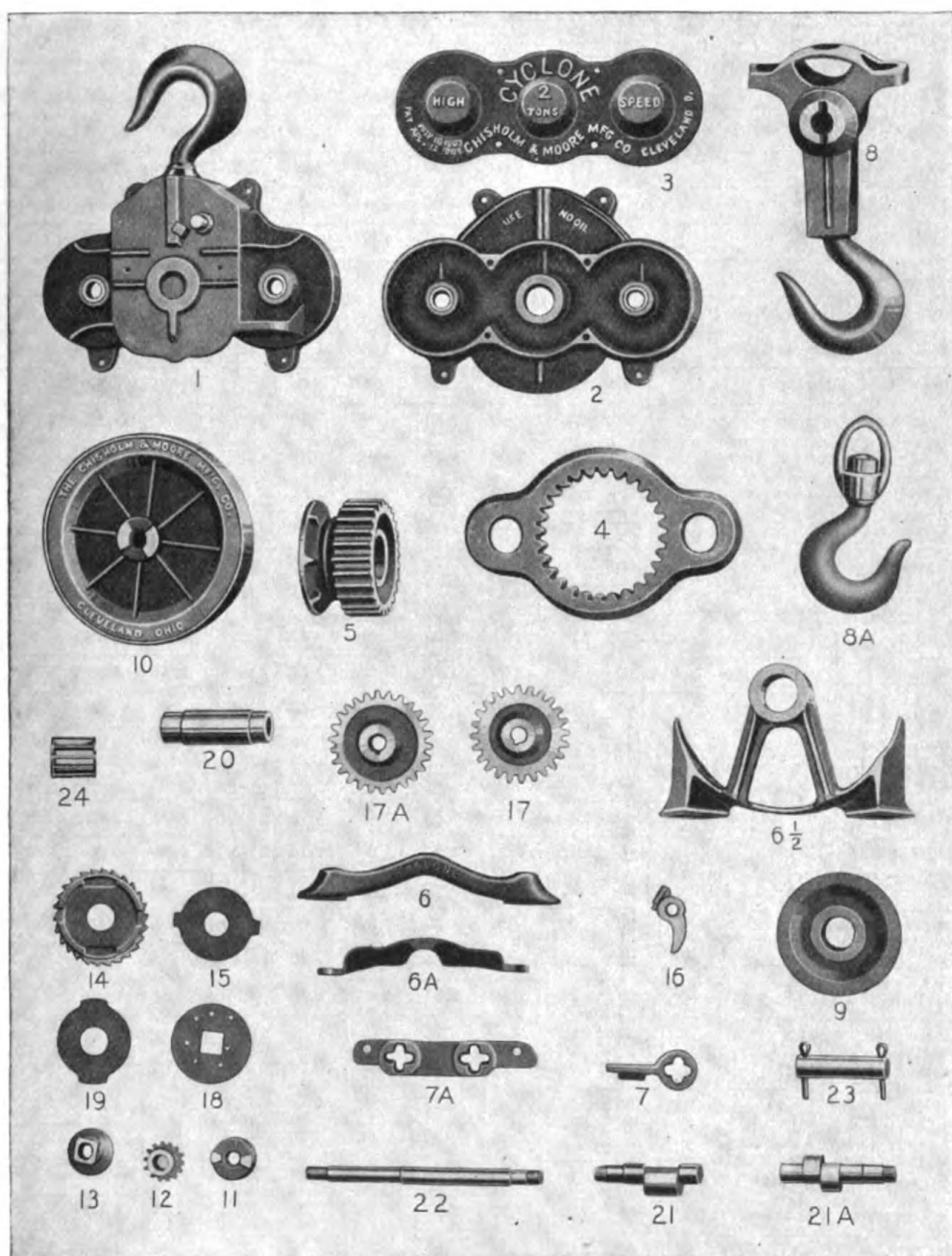
†Figures in third column denote approximate height which blocks, with regular lengths of chain, will lift from level on which operator stands.

For every additional foot of lift desired, two feet extra of both main and hand chain will be necessary, except as to the sizes 16 tons and over.

Original from

UNIVERSITY OF ILLINOIS AT
URBANA-CHAMPAIGN

PARTS OF
"Cyclone"
 (Trade Mark)
High Speed Chain Hoist



When ordering give number of part, size of Hoist and the serial number which is stamped on the upper hook.

PRICE LIST OF PARTS
"Cyclone" High Speed Chain Hoist
Half Ton to Twelve Ton Sizes

	Size of Block	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	5	6	8	10	12
1	Frame, Front with Hook	\$6.00	\$7.50	\$10.00	\$11.50	\$15.00	\$16.00	\$18.00	\$18.00	\$20.00	\$23.00	\$25.00
2	Frame Back	4.80	6.00	8.00	9.50	12.00	13.00	15.00	15.00	17.00	19.00	21.00
3	Gear Cover	.60	.75	1.00	1.20	1.50	1.50	1.75	1.75	1.75	2.00	2.25
4	Yoke	3.60	4.50	6.00	7.00	9.00	10.00	11.00	11.00	12.00	13.00	14.00
5	Lift Wheel	3.00	3.75	5.00	5.80	7.50	10.00	12.00	12.00	15.00	17.00	18.00
6	Hand Chain Guide	.30	.40	.50	.50	.60	.60	.75	1.00	1.00	1.00	1.00
6A	Hand Chain Guide Connection	.10	.10	.10	.10	.15	.15	.15	.20	.25	.25	.25
6 $\frac{1}{2}$	Bell Mouth Chain Guide	.60	.80	1.00	1.00	1.20	1.20	1.50	2.00	2.00	2.00	2.00
7	Load Chain Stripper	.30	.40	.50	.50	.60	.60	.65	.65	.70	.75	.75
7A	Load Chain Stripper	.40	.50	.60	.60	.70	.70	.75	.75	.85	.90	.90
8	Lower Frame with Hook	1.75	2.25	3.00	3.50	4.50	5.00	5.50	6.00	7.50	10.00	11.00
8A	Lower Swivel Hook	1.50	2.30	3.20	5.50	....	....	....	....	....	....	....
9	Lower Sheave	.60	.75	1.00	1.20	1.50	2.00	2.25	2.75	3.25	4.00	4.00
10	Hand Wheel	1.50	2.00	2.25	2.75	3.00	3.00	4.00	6.00	6.00	6.00	6.00
11	Clutch	.25	.25	.25	.25	.30	.30	.30	.30	.35	.35	.35
12	Clutch Nut	.25	.25	.25	.25	.30	.30	.30	.30	.35	.35	.35
13	Plug	1.00	1.00	1.00	1.00	1.25	1.25	1.25	1.25	1.50	1.50	1.50
14	Cup	.50	.50	.50	.50	.60	.60	.60	.60	.90	.90	.90
15	Plate	.25	.25	.25	.25	.30	.30	.30	.30	.35	.35	.35
16	Pawl	.25	.25	.25	.25	.30	.30	.30	.30	.50	.50	.50
17	Center Pinion	1.00	1.10	1.25	1.35	1.50	1.75	2.00	2.00	2.00	2.25	2.50
17A	Outer Pinion	1.00	1.10	1.25	1.35	1.50	1.75	2.50	2.50	2.50	2.75	3.00
17B	Idler Pinion	....	....	....	....	....	....	....	....	1.50	1.50	1.75
18	Fibre Washer	.25	.25	.25	.25	.30	.30	.30	.30	.35	.35	.35
19	Steel Friction Washer	.25	.25	.25	.25	.30	.30	.30	.30	.35	.35	.35
20	Hollow Shaft	1.00	1.25	1.50	1.75	2.25	2.50	4.00	4.00	5.00	5.75	6.50
21	Eccentric, Single	1.25	....	....	....	....	....	....	....	....	....	....
21A	Eccentric, Double	....	1.75	2.25	2.25	2.40	2.50	2.75	2.75	3.00	3.25	3.50
22	Hand Wheel Shaft	.60	.75	1.00	1.25	1.30	1.40	1.50	1.50	1.60	1.75	1.90
23	Lower Sheave Pin	.25	.25	.30	.30	.35	.40	.45	.50	.65	.75	.85
24	Eccentric Roller Cage	.15	.15	.15	.15	.20	.20	.20	.20	.25	.25	.25
Hand Chain, per ft.		.25	.25	.25	.25	.25	.25	.25	.25	.40	.40	.40
Lift Chain, per ft.		.40	.45	.50	.55	.60	.70	.80	.80	1.00	1.25	1.25

Give serial number stamped on upper hook when ordering hoist parts.

See page 837

Original from

UNIVERSITY OF ILLINOIS AT
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“Direct” Differential Pulley Blocks

EACH BLOCK THOROUGHLY TESTED PRICE LIST OF COMPLETE BLOCKS



Capacity, Tons	Will Lift, Feet	Price	Regular Chain, Feet	Extra Chain Per Foot	Weight with Chain, Lbs.	Shortest Distance Between Hooks, In.
$\frac{1}{4}$	6	\$18.00	22	\$0.70	22	17
$\frac{1}{2}$	7	21.00	26	.70	30	21
$\frac{3}{4}$	8	25.00	30	.75	35	25
1	8	28.00	30	.75	50	26
$1\frac{1}{2}$	$8\frac{1}{2}$	36.00	33	.80	81	32
2	9	45.00	36	.85	125	39
3	10	60.00	38	1.00	180	44

Allow four feet of chain for each additional foot of lift.

Always specify “Direct” when ordering this style of block.

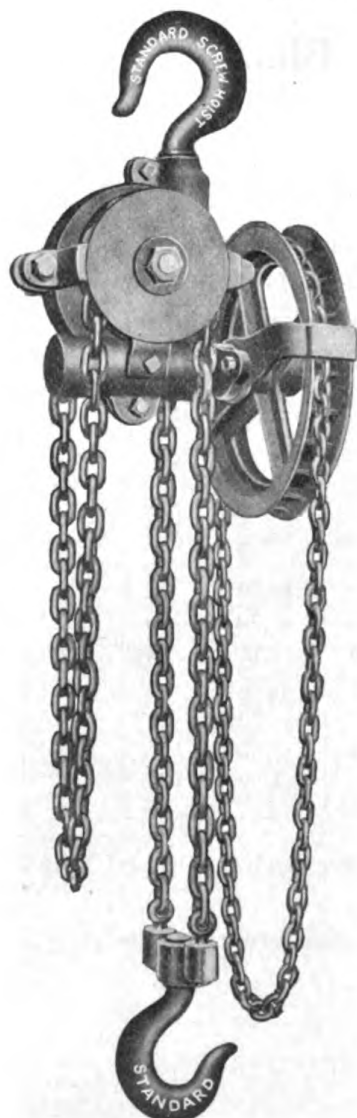
PRICE LIST OF PARTS

Capacity, Tons	Sheaves		Yokes and Hooks		Pins		Complete Chains Regular Lift
	Top	Bot- tom	Top	Bot- tom	Top	Bot- tom	
$\frac{1}{4}$	\$3.60	\$0.90	\$3.00	\$2.25	\$0.40	\$0.30	\$10.50
$\frac{1}{2}$	4.80	1.30	3.75	3.00	.50	.40	12.50
$\frac{3}{4}$	5.40	1.40	4.10	3.35	.50	.40	17.00
1	6.00	1.50	4.50	3.75	.50	.40	17.00
$1\frac{1}{2}$	8.40	1.90	5.50	4.50	.60	.50	21.50
2	12.00	2.25	7.50	5.50	.60	.50	27.00
3	15.60	3.75	11.00	8.00	.70	.60	36.00

Original from

UNIVERSITY OF ILLINOIS AT
URBANA-CHAMPAIGN

"Standard" Screw Chain Hoist



A powerful and easy working block.

No vibration.

All working parts protected from weather and dust.

The hoist always hangs plumb.

The worm gear is of bronze on a steel shaft and is operated by a steel worm.

Hardened tool steel thrust bearings.

PRICE LIST

Capacity, Tons	Price Complete with Chain	Extra Main Chain per Foot	Extra Hand Chain per Foot	Extra per Foot of Lift	Height of Lift per Ft.†	Weight Complete with Chains Pounds	Shortest Dist. Between Hooks Inches	Chain Over-Hauled to Raise 1 Foot per Ft.
½	\$25.00	\$0.40	\$0.25	\$1.00	7	56	16	47
1	30.00	.44	.25	1.10	8	71	17	58
1½	40.00	.48	.25	1.20	8	81	17	73
2	50.00	.52	.25	1.30	9	99	20	83
3	75.00	.60	.25	1.50	10	157	24	120

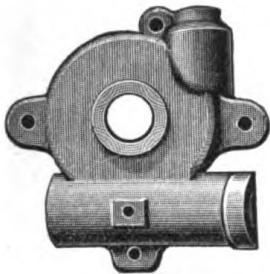
† Figures in sixth column denote approximate height which blocks, with regular lengths of chain will lift from level on which operator stands.

For every additional foot of lift desired, two feet extra of both main and hand chain will be necessary.

For extra parts, see page 841.

Original from
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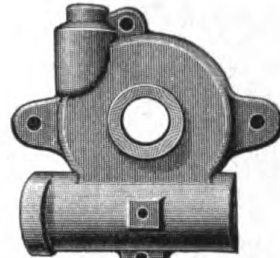
Parts of the "Standard" Screw Chain Hoist



No. 3
Side Frame



No. 13
Hand Wheel



No. 2
Side Frame



No. 6
Chain Stripper



No. 5
Hand-Chain Guard



No. 12
Lift Chain Guard



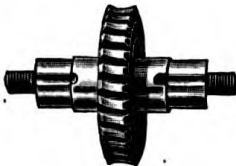
No. 9
Upper Hook



No. 4
Lift Chain Wheel



No. 8
Lower Hook and Yoke



No. 1
Worm Gear Wheel



No. 7
Worm

When ordering give number of part, size of hoist and the serial number which is stamped on the upper hook.

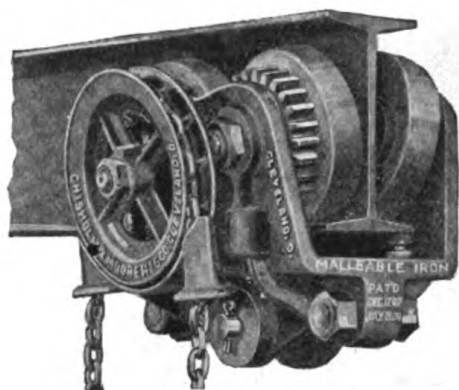
PRICE LIST OF PARTS "STANDARD" SCREW CHAIN HOIST

No.		½ Ton	1 Ton	1½ Ton	2 Ton	3 Ton
1	Worm wheel	\$3.50	\$4.00	\$5.00	\$6.00	\$7.00
2	Side frame	2.50	3.00	4.00	5.00	6.00
3	Side frame	2.50	3.00	4.00	5.00	6.00
4	Lift chain wheels, per pair.....	1.50	2.00	2.50	3.00	3.50
5	Hand chain guard.....	.90	1.00	1.30	1.80	2.00
6	Chain stripper	.30	.40	.50	.60	.70
7	Worm	3.00	3.50	4.00	4.50	5.00
8	Lower hook and yoke.....	2.00	2.50	3.00	3.50	4.50
9	Upper hook	1.00	1.40	1.80	2.40	3.00
12	Lift chain guard	.30	.40	.50	.60	.70
13	Hand chain wheel	1.50	1.60	2.50	3.00	3.50

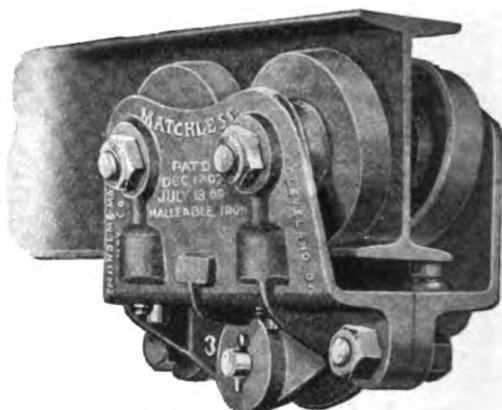
Give serial number stamped on upper hook when ordering hoist parts.

Original from

"Matchless" Adjustable Malleable Frame Trolleys



Geared Fig. 122.



Plain Fig. 123

These trolleys are readily adjustable to the different sizes I beams specified in the price list. They have flangeless track wheels with vertical guide rollers.

The track wheels have hardened steel roller bearings (hardened steel bushings pressed into the wheels, hardened steel axles and hardened steel rollers enclosed in brass cages).

On the geared trolley, the gears are cut. They work very freely and have a large safety factor.

The hoist is to be hung on the central bolt. The top of the hoist hook reaches to within one inch of the I beam, making a very close connection.

The fact that these trolleys are adjustable admits of their being carried in stock.

To lubricate track wheels, force grease through the holes in exposed ends of the axle studs. This can be done without taking the trolley down.

PRICE LIST

Capacity Pounds	Tread Diameter of Wheel, Inches	Adjustable for Sizes I Beams, Inches	Geared, Fig. 122	Plain, Fig. 123	Weight, Fig. 122 Lbs.	Weight, Fig. 123 Lbs.
1000	4	5 6 7	.....	\$16.00	.....	35
2000	5	6 7 8	\$35.00	20.00	60	47
3000	5	6 7 8	38.00	26.00	70	56
4000	6	7 8 9	40.00	28.00	90	74
6000	6½	8 9 10	47.00	33.00	118	102
8000	7	9 10 12	52.00	37.00	177	155
10000	8	10 12 15	65.00	43.00	218	194
12000	8	10 12 15	80.00	55.00	265	240
16000	9	12 15 18	95.00	70.00	421	378
20000	10	15 18 20 24	115.00	85.00	480	434
24000	10	15 18 20 24	130.00	110.00	600	550

Plain Trolleys

Malleable Iron Frame, Four Wheels, Roller Bearings

Made for I beams ranging from 3 to 8 inches.

PRICE LIST



Fig. 120

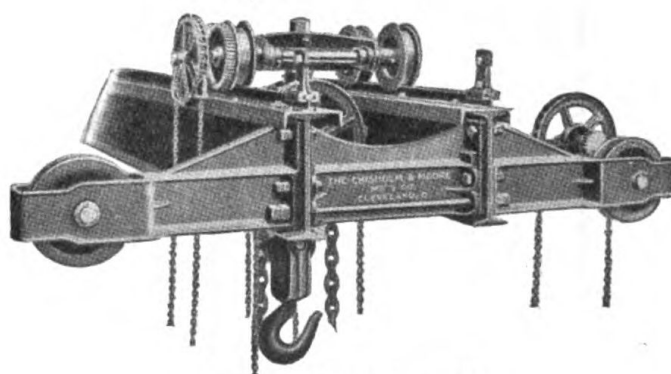
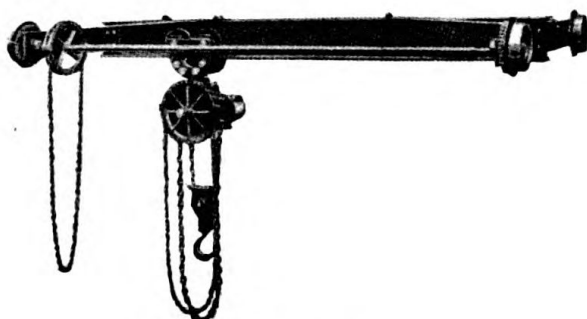
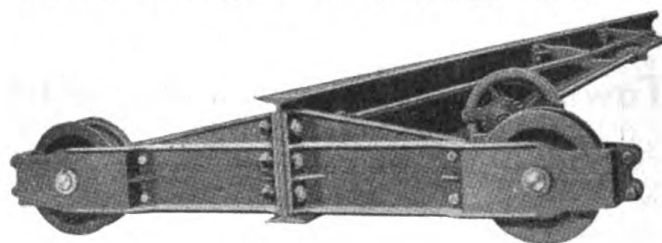
Capacity	Tread Diameter of Wheel	For I Beams	Price
500 lbs.	2 inches	3 and 4 inch	\$7.00
1000 "	3¼ "	5 and 6 "	8.00
2000 "	3¾ "	5 and 6 "	10.50
3000 "	4½ "	6 and 7 "	13.50
4000 "	5½ "	7 and 8 "	17.00

In ordering state size and weight of I beam.

Original from

UNIVERSITY OF ILLINOIS AT
URBANA-CHAMPAIGN

Hand Power Traveling Cranes



16 TONS CAPACITY

Prices will be quoted on application, giving specifications as to length of span, capacity and distance from track rail to floor.

Hoist Chain



Unusual care is taken in the manufacture of the chains for the hoist and cranes illustrated in the preceding pages.

Our Factory's chain shop is fitted with the most modern appliances, and material used is of the highest grade; all chains are tested as to strength and accuracy of size, and to prevent stretching when in use, are made shorter than gauge and afterwards stretched to gauge under a pull of fifty per cent greater than the maximum load they are intended to carry.

The above cut is from a photograph of a $\frac{3}{8}$ -inch chain which stretched rigid and broke at 9,950 pounds, the maximum load which this size is intended to carry being 2,000 pounds.